

Advanced Nutrient Management

Conservation Activity Job Sheet

(NJNutrient04)

Participant _____

Crop Year _____



Meet the Advanced Nutrient Management Standard (NJ-590A)

Meeting the Advanced Nutrient Management standard means having a nutrient management plan in place that meets the criteria identified in NJ Technical Standard 590A - Advanced Nutrient Management, and following the recommendations and requirements in that plan.

Plans for advanced nutrient management shall specify the timing and method of management for all nutrients and/or waste to be applied. Recommendations will be based on realistic production goals derived from actual farm specific yield records.

A nutrient budget for nitrogen, phosphorus, and potassium that considers all potential sources of nutrients including animal manure and organic by-products, waste water, commercial fertilizer, crop residues, legume credits, and irrigation water, is necessary to meet the 590A standard, and is the basis for making annual application decisions. The budget should be based on site specific soil test results and yield monitoring records.

Innovative approaches to managing excess fertilizers, especially when yields do not match projections, can include use of cover crops and alternate crops.

Advanced nutrient management plans address the potential offsite issues of nitrogen leaching into shallow ground water, phosphorus accumulation in the soil, the increased potential for phosphorus transport in soluble form, and the types of water quality impairment that could result from phosphorus movement into surface water bodies.

Documentation Required: Completed checklist for Advanced Nutrient Management.

I certify that I met the requirements in the NJ Technical Standard 590A for Advanced Nutrient Management.

Signature

Date

Persons who prepare plans for advanced nutrient management shall be certified through the State of Maryland Nutrient Management Certification Program or other state certification program recognized by NRCS-New Jersey, or shall be listed as a Technical Service Provider for the area where the land is located. The NJ Technical Standard for Advanced Nutrient Management (590A) should be used as a reference for compliance with this activity.

CHECKLIST FOR ADVANCED NUTRIENT MANAGEMENT (590A) PLANS

The following items are required for inclusion in an Advanced Nutrient Management (590A) plan:

- ☐ 1. Aerial site photographs
- ☐ 2. Soil survey map
- ☐ 3. Current crop production system including rotation sequence
- ☐ 4. Location of sensitive areas or resources including surface waters and wellheads
- ☐ 5. Yield goals based on prior records or other reliable local data
- ☐ 6. Current soil tests (maximum 3 years old)
- ☐ 7. Nutrient management plan (N, P, K, lime) for each crop according to current Rutgers or Penn State Cooperative Extension Production Recommendations
- ☐ 8. Plant tissue and/or manure analysis (if used for nutrient recommendations)
- ☐ 9. Planned and applied rates, times, and methods of nutrient application
- ☐ 10. Phosphorous Index and Leaching Risk Index
- ☐ 11. Description of site location technology used, including Global Positioning System and guidance system
- ☐ 12. Description of variable-rate application technology
- ☐ 13. Documentation of application equipment calibration
- ☐ 14. Results of PSNT or PPSN soil test (if manure or organic byproducts are used)
- ☐ 15. Farm specific yield records for crops using 590A.